

1590 1600 1610 1620 1630 1640 1650
TGACGTGGAAAGATGACGGCTGCGGGACTCGCTTGCTGCGCAGAGCCAGAGGTTGGCTGTGTTC
TGACGTGGAAAGATGACGGCTGCGGGACTCGCTTGCTGCGCAGAGCCAGAGGTTGGCTGTGTTC
1580 1590 1600 1610 1620 1630 1640 1650
1660 1670 1680 1690 1700 1710 1720
CAGAGCACCGCTGCGGTGAGGAGATCCCTGGCCAAATCTCTGCTGCTAGTATGAGTGTGTACGTGG
CAGAGCACCGCTGCGGTGAGGAGATCCCTGGCCAAATCTCTGCTGCTAGTATGAGTGTGTACGTGG
1650 1660 1670 1680 1690 1700 1710 1720
1730 1740 1750 1760 1770 1780 1790 1800
TGCTCAGGCTCTTTCTTTATGTGTCAGGAGACCAAGTTCCTCAAGAGACAGGCTCTTTTCTACCGGAP
TGCTCAGGCTCTTTCTTTATGTGTCAGGAGACCAAGTTCCTCAAGAGACAGGCTCTTTTCTACCGGAP
1730 1740 1750 1760 1770 1780 1790 1800
1810 1820 1830 1840 1850 1860 1870 1880
TCTCGAGCAAGTTGCAAGCAATTGGAATCAGACAGCACTTGAGAGGCTGCAGCTCGGAGAGCTGC
TCTCGAGCAAGTTGCAAGCAATTGGAATCAGACAGCACTTGAGAGGCTGCAGCTCGGAGAGCTGC
1800 1810 1820 1830 1840 1850 1860 1870
1880 1890 1900 1910 1920 1930 1940 1950
CAGAGGTGAGGAGCAGATCGGAGAGCCAGGCCCGCTGCTGAGCTCCAGACATCCGCTTCATCCCCAA
CAGAGGTGAGGAGCAGATCGGAGAGCCAGGCCCGCTGCTGAGCTCCAGACATCCGCTTCATCCCCAA
1870 1880 1890 1900 1910 1920 1930 1940
1950 1960 1970 1980 1990 2000 2010 2020
ACGGGTGCGGCCGATTTGTAACTGAGCACTGCTGCGGAGCCAGAAAGTTCCGACAGAAAAAGAG
ACGGGTGCGGCCGATTTGTAACTGAGCACTGCTGCGGAGCCAGAAAGTTCCGACAGAAAAAGAG
1940 1950 1960 1970 1980 1990 2000 2010
2020 2030 2040 2050 2060 2070 2080 2090
AGCGTCTACCTCGAGGGTGAAGCAGCTGTTGACGTGCTCAACTACGAGCGGGCGCGCCCGCG
AGCGTCTACCTCGAGGGTGAAGCAGCTGTTGACGTGCTCAACTACGAGCGGGCGCGCCCGCG
2010 2020 2030 2040 2050 2060 2070 2080
2090 2100 2110 2120 2130 2140 2150 2160
TGCGGCCCTCTGCTGCGGCTCGACATATCCACAGGCGCTGGCGCACTTCGCTGCTGCGTGTGCG
TGCGGCCCTCTGCTGCGGCTCGACATATCCACAGGCGCTGGCGCACTTCGCTGCTGCGTGTGCG
2090 2100 2110 2120 2130 2140 2150 2160
2170 2180 2190 2200 2210 2220 2230 2240
AGGACCGCGCGCTGAGCTGTA-----CATCCCCCA
AGGACCGCGCGCTGAGCTGTA-----CATCCCCCA
2160 2170 2180 2190 2200 2210 2220 2230
2200 2210 2220 2230 2240 2250 2260 2270 2280 2290 2300
GGCTCACGGAGTCTATCCGAGCATATCAAAACCCAGAACAGTACTGCGTGCCTCGGTATGCGGT
GGCTCACGGAGTCTATCCGAGCATATCAAAACCCAGAACAGTACTGCGTGCCTCGGTATGCGGT
2230 2240 2250 2260 2270 2280 2290 2300
2270 2280 2290 2300 2310 2320 2330 2340 2350 2360 2370
AGGAGCGCGCCATGGGCACTCGCAAGGCTTTCAAGAGCAACGCTCTCTACCTTGAAGACCTTCCA
AGGAGCGCGCCATGGGCACTCGCAAGGCTTTCAAGAGCAACGCTCTCTACCTTGAAGACCTTCCA
2300 2310 2320 2330 2340 2350 2360 2370

ACATGCGACAGTTGCTGGCTCACCTGCAGGAGACCAAGCCCGCTGAGGATCCGCTCGTCACTCGAGCA
2370 2380 2390 2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500

GACACCGGTGACCTACGTGCCACTCTGGGTCACTCAGGACAGCCAGCGACGTGAGTCGG
 3310 3320 3330 3340 3350 3360 3370
 CGGGACGACGCTGACTGCGCTGGAGCGCGACGCAACCCGGCACTCGCCTCAGACTTCAGAGCC
 3370 3380 3390 3400 3410 3420 3430 3440
 CGGGACGACGCTGACTGCGCTGGAGCGCGACGCAACCCGGCACTCGCCTCAGACTTCAGAGCC
 3440 3450 3460 3470 3480 3490 3500 3510
 ACTGATGGCCACCGCCGACAGCGCGAGAGCAGACACAGCAGCCCTGTCAAGCGCGGCTC
 3520 3530 3540 3550 3560 3570 3580 3590
 ACTGATGGCCACCGCCGACAGCGCGAGAGCAGACACAGCAGCCCTGTCAAGCGCGGCTC
 3600 3610 3620 3630 3640 3650 3660 3670
 CAGGAGGAGGGCGCGCCACACCGAGCCCGCAACCGCTGGAGTCTGAGGCGCTGAGTGTGT
 3680 3690 3700 3710 3720 3730 3740 3750
 AGGCTGCAATCCGCGTGAAGGCTGAGTGTCCGCTGAGGCTGAGGCGCTGAGTGTGTGT
 3760 3770 3780 3790 3800 3810 3820 3830
 AGGCTGCAATCCGCGTGAAGGCTGAGTGTCCGCTGAGGCTGAGGCGCTGAGTGTGTGT
 3840 3850 3860 3870 3880 3890 3900 3910
 TCAGACACCTGCGCTTCACTTCCCAATGAGGCTGCGCTCCACCCAGGGCGAGCTT
 3920 3930 3940 3950 3960 3970 3980 3990
 CCAGGAGCGGGCTTCCACTCCCAATGAGGCTGCGCTCCACCCAGGGCGAGCTT
 4000 4010 4020 4030 4040 4050 4060 4070
 CCAGGAGCGGGCTTCCACTCCCAATGAGGCTGCGCTCCACCCAGGGCGAGCTT
 4080 4090 4100 4110 4120 4130 4140 4150
 CCAGGAGCGGGCTTCCACTCCCAATGAGGCTGCGCTCCACCCAGGGCGAGCTT
 4160 4170 4180 4190 4200 4210 4220 4230
 TGCCCTCTTTGGCTTCCACCCCAATGAGGCTGCGCTCCACCCAGGGCGAGCTT
 4240 4250 4260 4270 4280 4290 4300 4310
 TGCCCTCTTTGGCTTCCACCCCAATGAGGCTGCGCTCCACCCAGGGCGAGCTT
 4320 4330 4340 4350 4360 4370 4380 4390
 TTGGAGTGACCAAGGTGTGCGCTGTACACAGCGGAGGACCTGCACTGGAGTGGGGTCCCTGTG
 4400 4410 4420 4430 4440 4450 4460 4470
 TTGGAGTGACCAAGGTGTGCGCTGTACACAGCGGAGGACCTGCACTGGAGTGGGGTCCCTGTG
 4480 4490 4500 4510 4520 4530 4540 4550
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 4560 4570 4580 4590 4600 4610 4620 4630
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 4640 4650 4660 4670 4680 4690 4700 4710
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 4720 4730 4740 4750 4760 4770 4780 4790
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 4800 4810 4820 4830 4840 4850 4860 4870
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 4880 4890 4900 4910 4920 4930 4940 4950
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 4960 4970 4980 4990 5000 5010 5020 5030
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 5040 5050 5060 5070 5080 5090 5100 5110
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 5120 5130 5140 5150 5160 5170 5180 5190
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 5200 5210 5220 5230 5240 5250 5260 5270
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 5280 5290 5300 5310 5320 5330 5340 5350
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 5360 5370 5380 5390 5400 5410 5420 5430
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 5440 5450 5460 5470 5480 5490 5500 5510
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 5520 5530 5540 5550 5560 5570 5580 5590
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 5600 5610 5620 5630 5640 5650 5660 5670
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 5680 5690 5700 5710 5720 5730 5740 5750
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 5760 5770 5780 5790 5800 5810 5820 5830
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 5840 5850 5860 5870 5880 5890 5900 5910
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 5920 5930 5940 5950 5960 5970 5980 5990
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6000 6010 6020 6030 6040 6050 6060 6070
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6080 6090 6100 6110 6120 6130 6140 6150
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6160 6170 6180 6190 6200 6210 6220 6230
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6240 6250 6260 6270 6280 6290 6300 6310
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6320 6330 6340 6350 6360 6370 6380 6390
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6400 6410 6420 6430 6440 6450 6460 6470
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6480 6490 6500 6510 6520 6530 6540 6550
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6560 6570 6580 6590 6600 6610 6620 6630
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6640 6650 6660 6670 6680 6690 6700 6710
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6720 6730 6740 6750 6760 6770 6780 6790
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6800 6810 6820 6830 6840 6850 6860 6870
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6880 6890 6900 6910 6920 6930 6940 6950
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 6960 6970 6980 6990 7000 7010 7020 7030
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 7040 7050 7060 7070 7080 7090 7100 7110
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 7120 7130 7140 7150 7160 7170 7180 7190
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 7200 7210 7220 7230 7240 7250 7260 7270
 TTGGGGGAGGTGCTGTGGGAGTAAAACTGAATATATGATGATTTTCAGTTTGAAGAAAAA
 7280 7290 7300 7310 7320 7330 7340 7350
 TTGGGGGAGGTGCTGTGGGAGTAAAA

[illegible]